



Serial No. 10/620987

IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

Inventor(s): **Angeliki Alexiou
Mohammed Qaddi**

Case: **4-2**

Serial No.: **10/620987**

Filing Date: **July 16, 2003**

Examiner:

Group Art Unit:

Title: **Method And Apparatus For Transmitting Signals In A Multi-Antenna
Mobile Communications System That Compensates For Channel
Variations**

COMMISSIONER FOR PATENTS

P.O. BOX 1450

ALEXANDRIA, VA 22313-1450

SIR:

INFORMATION DISCLOSURE STATEMENT
UNDER 37 CFR 1.97(b)

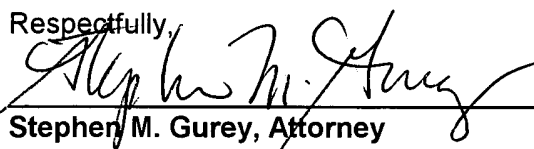
In accordance with 37 CFR 1.97(b), the enclosed Information Disclosure Statement, with attached reference(s), is submitted for consideration in the above-identified application.

Copies of the listed documents are enclosed together with the search report that listed these documents.

NO FEE IS REQUIRED

In the event of any non-payment or improper payment of a required fee, the Commissioner is authorized to charge or to credit **Lucent Technologies Deposit Account No. 12-2325** as required to correct the error.

Respectfully,


Stephen M. Gurey, Attorney
Reg. No. 27336
973-386-8252

Date: Aug 7, 2003

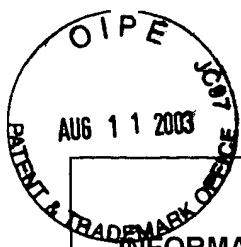
Docket Administrator (Room 3J-219)
Lucent Technologies Inc.
101 Crawfords Corner Road
Holmdel, NJ 07733-3030

I hereby certify that this correspondence is being deposited with the United States Postal Service in first class mail in an envelope addressed to the Assistant Commissioner for Patents, Washington, DC, 20231, on 8-7-03.


Signature

8-7-03

Date of Signature



INFORMATION DISCLOSURE STATEMENT

Case Name: A. Alexiou 4-2
Serial No. 10/620987
Applicant: A. Alexiou, et al.
Filing Date: July 16, 2003
Group:

U.S. PATENT DOCUMENTS

*Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date
	AA	6,185,258	2/6/2001	S. Alamouti, et al	375	260	5/7/1998

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation

OTHER (including Author, Title, Date, Pertinent Pages, etc.)

	AB	Siavash M. Alamouti, "A Simple Transmit Diversity Technique for Wireless Communications", <i>IEEE Journal on Select Areas in Communications</i> , Vol. 16, No. 8, (10-98), pages 1451-1458.
	AC	George Jongren, et al, "Combining Transmit Antenna Weights and Orthogonal Space-Time Block Codes by utilizing Side Information", <i>IEEE</i> 1999, pages 1562-1566.
	AD	George Jongren, et al, "Combining Transmit Beamforming and Orthogonal Space-Time Block Codes by Utilizing Side Information", <i>IEEE</i> 2000, pages 153-157.
	AE	George Jongren, et al, "Combining Beamforming and Orthogonal Space-Time Block Coding", <i>IEEE Transactions on Information Theory</i> , Vol. 48, No. 3, (3-02), pages 611-627.
	AF	Aradhana Narula, et al, "Efficient Use of Side Information in Multiple-Antenna Data Transmission Over Fading Channels", <i>IEEE Journal on Selected Areas in Communications</i> , Vol. 16, No. 8, (10-98), pages 1423-1436.
	AG	Aradhana Narula, et al, "Performance Limits of Coded Diversity Methods for Transmitter Antenna Arrays", <i>IEEE Transactions on Information Theory</i> , Vol. 45, No. 7, (11-99), pages 2418-2433.
	AH	Vahid Tarokh, et al, "Space-Time Block Codes from Orthogonal Designs", <i>IEEE Transactions on Information Theory</i> , Vol. 45, No. 5, (7-99), pages 1456-1467.
	AI	Eugene Visotsky, et al, "Space-Time Transmit Precoding With Imperfect Feedback", <i>IEEE Transactions on Information Theory</i> , Vol. 47, No. 6, (9-01), pages 2632-2639.
	AJ	Shengli Zhou, et al, "Optimal Transmitter Eigen-Beamforming and Space-Time Block Coding Based on Channel Correlations", <i>IEEE</i> 2002, pages 553-557.
	AK	Shengli Zhou, et al, "Optimal Transmitter Eigen-Beamforming and Space-Time Block Coding Based on Channel Mean Feedback", <i>IEEE Transactions on Signal Processing</i> , Vol. 50, No. 10, (10-02), pages 2599-2613.
	AL	"3 rd Generation Partnership Project; Technical Specification Group Radio Access Network; Physical Channels and Mapping of Transport Channels Onto Physical Channels" (FDD) (Release 5), <i>3GPP TS 25.211 V5.4.0</i> (2003-06), pages 1-51.
	AM	M. K. Simon, et. al, "Digital Communication Over Fading Channels: A Unified Approach to Performance Analysis", <i>John Wiley & Sons</i> , 2000, pages 212-219.

***References listed beyond AZ would list as AA-1, AB-2, AC-3 thru AZ-26.

***Note First Page ONLY Header/Footer. Subsequent pages must ONLY have page # layout as header

EXAMINER	DATE CONSIDERED

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant